

TX station: 12xBkv3
Gain solid integration : enabled

Site Name: Labelitaly

General data of Antenna System

TX station	12xBkv3
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKV_3 YAGI 3 ELEM. VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	V
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	10.0
Mast cross section (T/Q/C)	C
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	0.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	BKV_3 YAGI 3 ELEM.
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	135
Height (cm)	88
Width (cm)	6
Thickness (cm)	79
Weight (Kg)	5
Maximum power (KW)	2
Gain (dBd)	5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	20
R.C.Phase (°)	0

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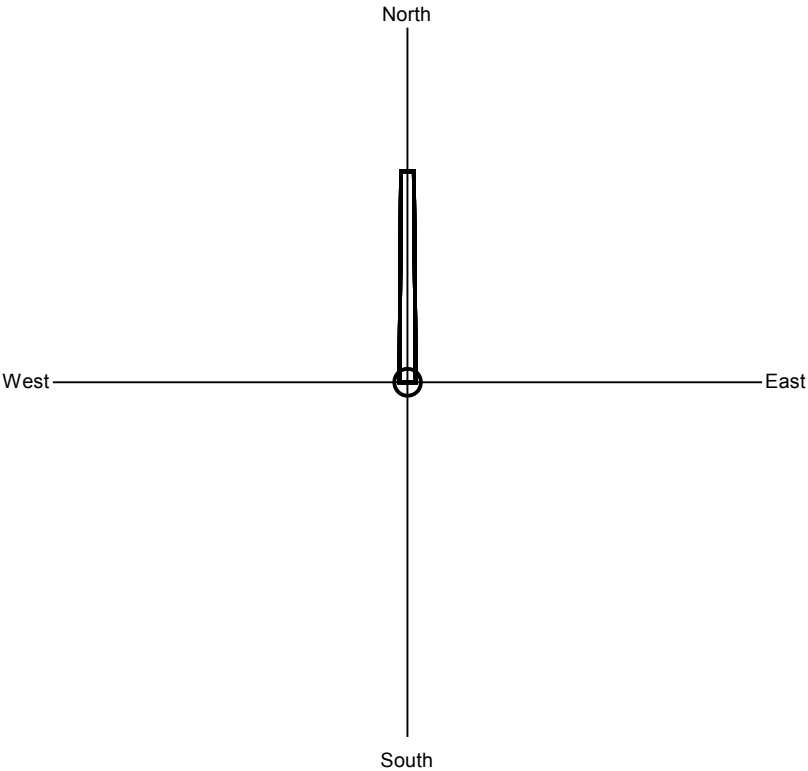
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)	<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	8.333	0	0	0 +0.0	7.15	0.0	0.0	1	1	400.0	0.0
2	8.333	0	0	0 +0.0	5.85	0.0	0.0	1	1	400.0	0.0
3	8.333	0	0	0 +0.0	4.55	0.0	0.0	1	1	400.0	0.0
4	8.333	0	0	0 +0.0	3.25	0.0	0.0	1	1	400.0	0.0
5	8.333	0	0	0 +0.0	1.95	0.0	0.0	1	1	400.0	0.0
6	8.333	0	0	0 +0.0	0.65	0.0	0.0	1	1	400.0	0.0
7	8.333	0	0	0 +0.0	-0.65	0.0	0.0	1	1	400.0	0.0
8	8.333	0	0	0 +0.0	-1.95	0.0	0.0	1	1	400.0	0.0
9	8.333	0	0	0 +0.0	-3.25	0.0	0.0	1	1	400.0	0.0
10	8.333	0	0	0 +0.0	-4.55	0.0	0.0	1	1	400.0	0.0
11	8.333	0	0	0 +0.0	-5.85	0.0	0.0	1	1	400.0	0.0
12	8.333	0	0	0 +0.0	-7.15	0.0	0.0	1	1	400.0	0.0

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Plan of antenna system



Side of antenna system



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Antennas arrays data

A. Antennas array azimuth (°/N)	0
B. Number of antennas	12
C. Nominal power supply (W)	1000.00
D. Losses (addit. + cables) (dB)	0.0
E. Effective power supply (W)	1000.00
F. Theor. maximum gain (dBd)	15.02
G. Distribution losses (dB)	0.00
H. Nominal max gain [F - G] (dBd)	15.02
I. Compensation losses (dB)	0.00
J. Effec. max gain [H - I] (dBd)	15.02
K. Effec. max gain (times)	31.76
L. Effec. max power [E * K] (KW)	31.7647
M. Max power depr. angle (°)	0.0
N. Max power az. angle (°)	0

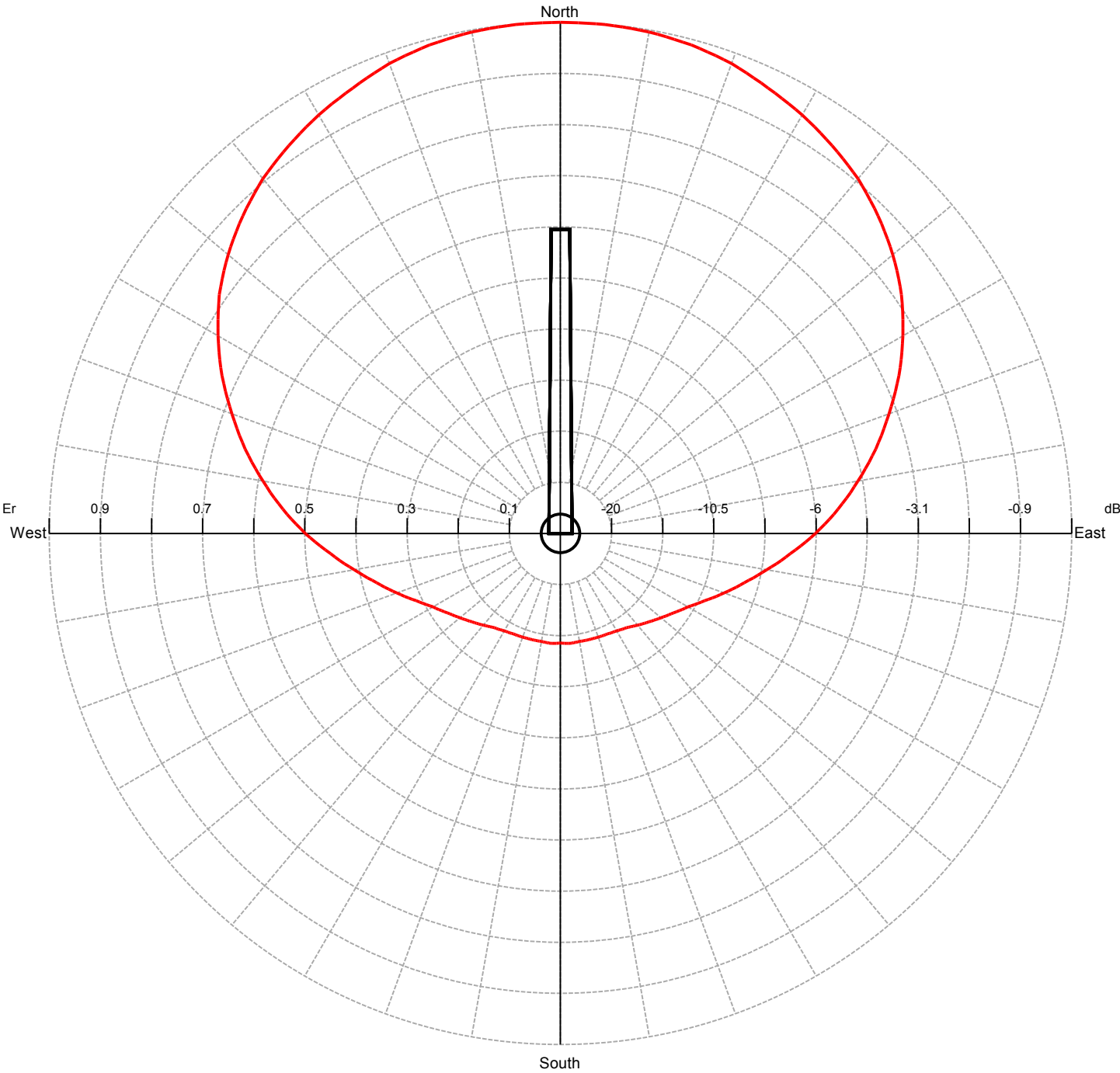
Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	15.0	90	9.0	180	1.6	270	9.0
10	15.0	100	7.3	190	1.6	280	10.5
20	14.8	110	5.7	200	1.7	290	11.7
30	14.5	120	4.2	210	1.9	300	12.8
40	14.2	130	3.2	220	2.4	310	13.6
50	13.6	140	2.4	230	3.2	320	14.2
60	12.8	150	1.9	240	4.2	330	14.5
70	11.7	160	1.7	250	5.7	340	14.8
80	10.5	170	1.6	260	7.3	350	15.0

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Horizontal diagram at 0.0° depres. (Total Antenna)

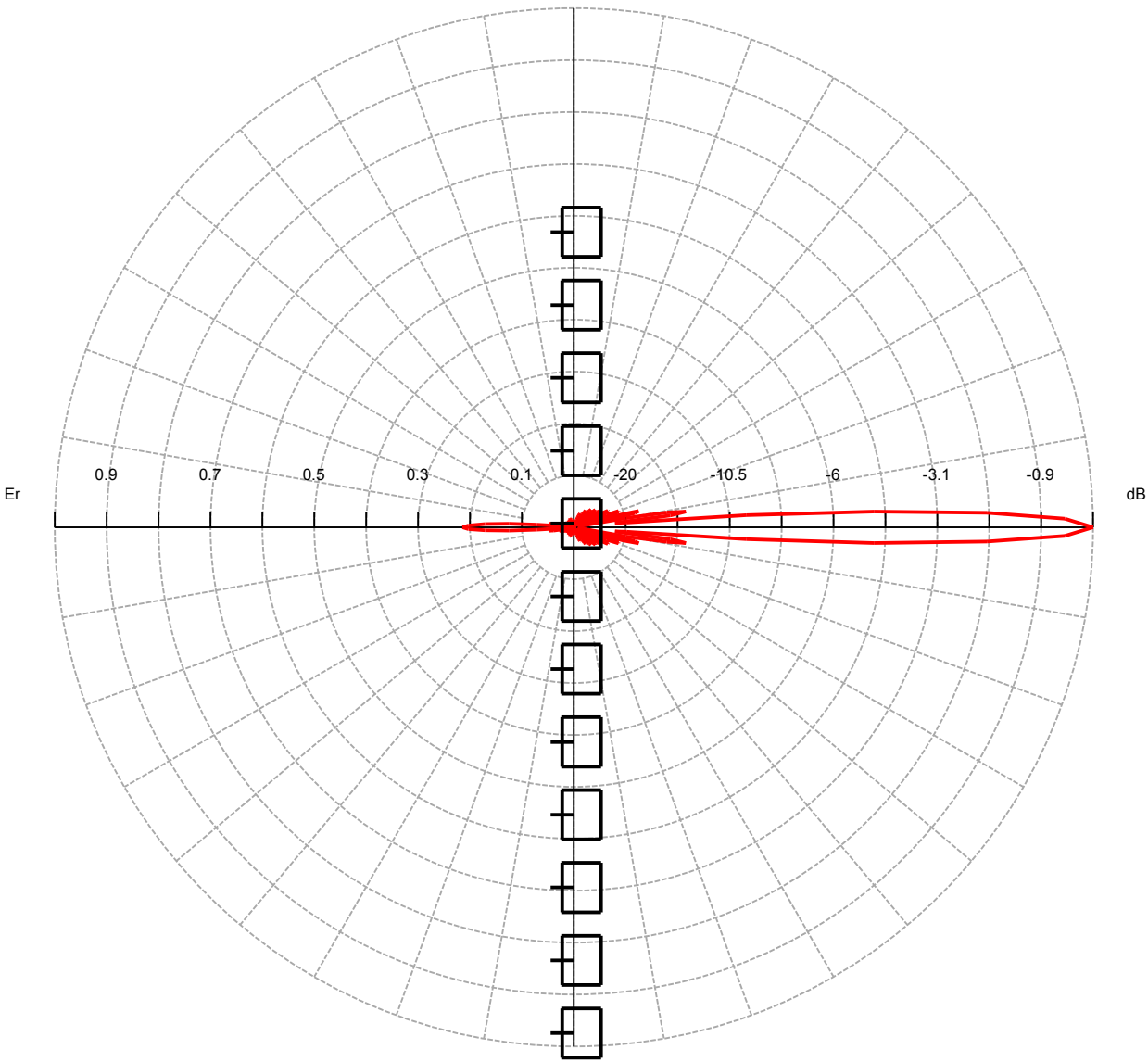


0.0° depres. (Total Antenna), Gain (dBd): 15.02 ERP T.Max(KW): 31.7647 ERP E.Max(KW): 31.7647

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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 15.02

ERP T.Max(KW): 31.7647 ERP E.Max(KW): 31.7647